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BOREHOLE ENGINEERING LOG

BOREHOLE NO : BH-A08

CLIENT : QTMR/Aurecon	POSITION : E: 492004, N: 7307686 (56 MGA94)	PAGE : 1 OF 2
PROJECT : Sunshine Coast Landslips	SURFACE ELEVATION :	DATE DRILLED : 5/8/13 to 5/8/13
JOB NO : QE09860.810	DIP / AZIMUTH : 90°	LOGGED BY : LN
LOCATION : R494 Approx CH 6715	CONTRACTOR : Drillsure	CHECKED BY : DWL

DRILLING					MATERIAL							
DRILLING & CASING	WATER	DRILLING PENETRATION	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY	STRUCTURE & Other Observations
AD/T				0.25m D-1	0.0	0.04	ASPHALT: 40 mm.		GRAVELLY SAND (FILL) (SP): Brown, fine to coarse grained sand, fine to medium gravel, trace silt.		D	
				1.00m D-2	0.5	0.50	BASALT: Brown, extremely to highly weathered (recovered as Sandy GRAVEL).					
					1.0	1.00	- grey in colour (high percent of gravel in cuttings)					1.00: Inferred boundary only
				3.00m D-3	3.0	3.00	SANDY CLAY (CH): Brown, (inferred as the clay infill of BASALT rockmass) sand.	CH			M	
					3.5	3.50	BASALT: Brown, moderately weathered (recovered as Sandy GRAVEL).					
					4.0							
					4.5							
					5.0							

DRILLING HA Hand Auger RR Rock Rolling AS Auger Screw HQ HQ Coring AD/T Auger Drill TC-bit NQ NQ Coring AD/V Auger Drill V-bit PQ PQ Coring WB Washbore NMLC NMLC Coring DRILLING PENETRATION VE Very Easy F Firm VH Very Hard E Easy H Hard				SAMPLES & FIELD TESTS D Disturbed Sample SPT Standard Penetration Test ES Env Soil Sample U Undisturbed Tube Sample EW Env Water Sample W Water Sample HP Hand Penetrometer HV Hand Vane Shear (P: Peak Su R: Residual Su) N SPT blows per 300mm HW SPT penetration by hammer weight RW SPT penetration by rod weight				DENSITY (SPT N-value) VL Very Loose 0 - 4 L Loose 4 - 10 MD Medium Dense 10 - 30 D Dense 30 - 50 VD Very Dense 50 - 100 CO Compact >50/150mm		CONSISTENCY (Su) {N-value} VS Very Soft < 12 kPa {0-2} S Soft 12 - 25 {2-4} F Firm 25 - 50 {4-8} St Stiff 50 - 100 {8-15} VSt Very Stiff 100 - 200 {15-30} H Hard > 200 kPa {>30}	
GROUNDWATER SYMBOLS = Water level (static) = Water level (during drilling)				MOISTURE CONDITION D = Dry M = Moist W = Wet							



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DRILLING					MATERIAL							
DRILLING & CASING	WATER	DRILLING PENETRATION	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY	STRUCTURE & Other Observations
AD/T					7.50m D-4	5.0			BASALT: Brown, moderately weathered (recovered as Sandy GRAVEL. <i>(continued)</i>)			
						5.5						
						6.0		6.00m	- increased clay fines (potential high defect zone)			6.00: With seams of easier drilling (inferred to be extremely weathered seams / clay infill)
						6.20			- grey brown, moderately to slightly weathered	M		6.20: Increased drilling difficulty
						6.5						
						7.0			- pale brown grey, slightly weathered (recovered as fine to medium grained, elongated, platy, fresh faces, increased fines percentage)			
						7.5		7.60m			D	
						7.60			BHA08 Terminated @ 7.60m bgl, TC drill bit refusal			
						8.0						
						8.5						
						9.0						
						9.5						
						10.0						

DRILLING HA Hand Auger RR Rock Rolling AS Auger Screw HQ HQ Coring AD/T Auger Drill TC-bit NQ NQ Coring AD/V Auger Drill V-bit PQ PQ Coring WB Washbore NMLC NMLC Coring DRILLING PENETRATION VE Very Easy F Firm VH Very Hard E Easy H Hard GROUNDWATER SYMBOLS = Water level (static) = Water level (during drilling)				SAMPLES & FIELD TESTS D Disturbed Sample SPT Standard Penetration Test ES Env Soil Sample U Undisturbed Tube Sample EW Env Water Sample W Water Sample HP Hand Penetrometer HV Hand Vane Shear (P: Peak Su R: Residual Su) N SPT blows per 300mm HW SPT penetration by hammer weight RW SPT penetration by rod weight				DENSITY (SPT N-value) VL Very Loose 0 - 4 L Loose 4 - 10 MD Medium Dense 10 - 30 D Dense 30 - 50 VD Very Dense 50 - 100 CO Compact >50/150mm				CONSISTENCY (Su) {N-value} VS Very Soft < 12 kPa {0-2} S Soft 12 - 25 {2-4} F Firm 25 - 50 {4-8} St Stiff 50 - 100 {8-15} VSt Very Stiff 100 - 200 {15-30} H Hard > 200 kPa {>30}			
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